A.N.A.R.T.S. News Bulletin 1393 for 23rd of April 2006

Items in this broadcast include

1. Cols column

2. IPS REPORT

3. VK2SG RTTY DX report

4. OPDX Bulletin

5. Anarts Information

News Flash News Flash News Flash News Flash News Flash News Flash

Anarts now has it own web site....http://www.anarts.com.au

Please visit the site and let us know if you would like other

features included.

Col's Column

Propagation of Radio Waves.

Ground Wave Propagation.

Radio waves are emitted from an antenna and travel in all

directions, both vertical and horizontal. This part of the

article concerns Ground Waves.

As the name suggests, a Ground Wave moves over the surface of the

earth. It is vertically polarised, any horizontal electrostatic

field is short circuited by the ground and disappears a short

distance from the transmitter.

As the ground wave moves over the earth it sets up small currents

in the earth, and as the earth offers a resistance to the flow

of current, there is a dissipation of energy that represents

energy absorbed from the ground wave. This process is known as

Ground Absorption, and its amount varies according to the nature

of the terrain over which it travels.

The port of the wave in contact with the earth is therefore being

continuously weakened and can only be replenished from the energy

contained in the portion of the ground wave immediately above

the earth. There is thus a continuous loss of energy which results

in the final dissipation of the wave.

The ground loss depends in a relatively complicated way on the

conductivity and dielectric constant of the earth, and also the

frequency in use.

The conductivity of the earth varies greatly under different

conditions, an approximate ratio between dry sandy and rocky soil,

moist loam and sea water being of the order of 1:30:500. The

dielectric constant of the earth ranges from 5 to 30 with the

low values tending to go with dry soils of poor conductivity and

higher values with moist conducting earth. The dielectric constant

of sea water is about 80.

Next week we move on to the Sky Wave.

73's Col VK2CTD

IPS Weekly Solar and Geophysical Report 14/20th Apr

SUMMARY

Date 14 15
16 17 18
19 20

10cm flux 79 78
77 78 74
76 79

AFr index 32 18
8   4   5
2   5 est

Aaus index 48
22   8   4
3   2   3 est

T index   61 16
4   8 17
18 16

Solar flare activity was very low all week.

Geomagnetic activity observed for the Australian Region
was unsettled

to severe storm levels on 14th quiet to minor storm on
15th quiet to

unsettled on 16/17th and 20th quiet and unsettled to
active at high

latitudes on 19th and quiet on 20th.

Southern Australian Ionospheric F2 critical frequencies
were enhanced

20 percent to 20 percent depressed on 14th depressed 20
to 25 percent

on 15th depressed 25 percent on 16th near predicted to 15
percent

depressed on 17th near predicted on 18/19th and near
predicted to 15

percent enhanced on 20th.

Forecast for 21/27th Apr

Solar activity should be low.

Geomagnetic activity should see quiet to unsettled
conditions.

Frequencies should be near predicted monthly values.

courtesy of the IPS Radio and Space Services

summary by Pat VK2JPA ANARTS Broadcast Officer

VK2SG RTTY DX NOTES WEEK ENDING 20 APR

Our information this week came from GU0SUP I5FLN DJ3IW
NG3K and OH2AQ's

DX Summit. Thank you all.

Bandpass

Friday 14

0005-14082 KD4POJ

0016-18101 TG9AKH

0020-10137 S01R

0036- 7039 PZ5RA

0133-14087 HR2/LU1DY

0256-10139 KP4/K3TRM

0950-21078 P29ZAD

1017-14083 T68G

1146-14084 EA8KL

1302-14086 3B8/ON4LAC

1334-14080 EK6TA

1425-14087 DU7/G4DUM

1450-18103 J5UAP

1634-14083 XW1A

1650-14085 HZ1NH

1903-21071 HC2NGF

2025-10136 CT3KN

2104-14080 P29ZAD

2129-14089 SV9CVY

2142-14082 CN8NK

2215-14082 HC5T

2229-14081 TR8CA

2234-10138 FM5JC

2251-14092 J5UAP

2323-10135 S01R

2357-14083 XW1A

Saturday 15

0000-14082 HK3BZO

0311-14081 XW1A

0534-14084 TA1DX

0621-21084 R45G

0652-10135 KP4JRS

0836-14081 BD1DCG

0901-14079 EK8WA

1053-14080 S01R

1103-21082 FR5AB

1118-21086 3B8/ON4LAC

1213-21084 HZ1NH

1225-24917 VQ9LA

1250-21087 VR2XMT

1254-21090 E20KIR

1304-14082 XW1A

1339-21084 CN8YZ

1346-14082 CU5AM

1356-21087 3B9FR

1400-14089 KP4/K3TRM

1419-14087 EP3AG

1420-21088 9J2CA

1453-14085 4K5D

1618-14089 CU6NS

1713-14086 5H3WJ

1731-14084 4S7AB

1812-21070 HC2NGF

1843-14082 TA3J/0

1850-14087 VR2XLN

1957-14088 FG5FI

2017-14080 P29ZAD

2030-14073 YN9H

2053-14082 EA9IB

2110-14082 CN8NK

2124-10135 S01R

2259-14081 TG9AKH

Sunday 16

0009-14086 CX4AAJ

0038- 7040 WP3C

0101-14087 HR2/LU1DY

0513-14081 EK8WA

0552-14083 UN8LF

1248-14087 UN8PIM

1252-14087 HR2/LU1DY

1253-21082 FR5AB

1300-14085 9V1UV

1304-14088 T68G

1310-18101 YB0JIV

1320-14091 YB0IR

1332-14086 EG8DIR

1453-14087 UN7PYL

1512-14086 HZ1NH

1519-14080 EK6YL

1545-14088 UN8PIM

1622-18103 TR8CA

1754-18108 KP4/K3TRM

1818-14088 EA9IB

1838-14089 CU6NS

1857-14079 NP3D

1910-14091 SV9CVY

1939-14086 EG8DIR

2006-14082 CU2JT

2015-14086 FG5FI

2140-21070 HC2NGF

2153-14084 CN8KD

Monday 17

0644-14089 TR8CA

0756-18102 J5UAP

0940-14085 EA6/I1RSA

1011-14078 P29ZAD

1013-14086 VR2XMT

1046-14083 EA6ADM

1148-18103 JW4GHA

1159-14088 EG8DIR

1246-14086 JW4GHA

1337-21079 5H3WJ

1501-18102 9M6/G3OOK

1527-14090 UN8PIM

1541-14087 3B9FR

1544-14083 CU5AM

1639-14086 JW0HZ

1642-14084 9H4CM

1652-18101 TI8CBT

1757-14052 XU7ABN

1816-14082 4Z5PN

1829-10138 9M6/G3OOK

1838-14080 6O0M

1914- 7034 VU4AN/VU3N

1924-10140 C31BO

1938-14079 EK6TA

1940-14080 IS0XBS

2006-14088 FG5FI

2121- 7032 TA3J/0

Tuesday 18

0135-14079 VU4/VU3RYN

0140-18100 KP4JRS

0938-14081 VU4AN/VU3SIX

1118-18095 VU4AN/VU3NZB

1222-14081 3B9/ON4LAP

1413-14080 A47RS

1514-18095 VU4AN/VU3NZB

1733-14087 CN8YZ

1754- 7034 VU4AN/VU3NZX

1804-14086 EG8DIR

1849-14088 VU4AN/VU3SID

2007- 7034 VU4AN/VU3NZB

2113-14083 YK1BA

2113- 7037 TA3J/0

2206-14080 FM5AA

2316-14079 VU4AN/VU3RWP

Wednesday 19

0207-14082 UN7PBY

0335-21084 VU4AN/VU3PLM

1102-21080 VU4AN/VU3RWP

1201-14081 VU4/VU3NZB

1246-14080 VU4AN/VU2MYH

1249-14082 VU4AN/VU3SID

1252-14080 4S7AB

1254-21079 FR5AB

1255-21087 CN8KD

1312-21087 YB1YG

1318-14078 4S7AB

1330-14081 VU4AN/VU3SID

1407-21087 3B9FR

1410-14089 3B9/ON4LAC

1446-18099 VU4AN/VU3NZB

1450-14080 DU7/G4DUM

1510-14079 YB0EIN

1514-14089 ZS2EZ

1534-18098 JW4GHA

1558-14080 VU4AN/VU2MYH

1639-14081 VU4AN/VU3SID

1732-18097 VU4AN/VU3NZB

1813-14089 8Q7BO

1912-14095 6O0N

2017-10142 TF3PPN

2127-28101 FM5AA

2204-14085 HR2/LU1DY

Thursday 20

0018-14081 CE3DR

0158-14085 UN7PBY

0203-14078 VU4AN/VU3RYN

0302-18105 VU4AN/VU3SID

0648-21084 VU4/VU3PLM

0822-18095 VU4AN/VU4NZB

0915-14080 VU4AN/VU3RYJ

1057-18095 VU4AN/VU3NZB

1125-14084 CU6NS

1154-14086 VU4AN/VU3SID

1319-14080 4S7AB

1441-14082 VU4AN/VU3RWP

1543-14080 DU7/G4DUM

1643-14083 XU7ABN

1659-14085 YI1OM

1719-14084 VU4AN/VU3PLM

1744-21082 JW4GHA

1756-14090 6O0M

1800-14081 TR8CA

1841-14081 5Z4ES

1848- 7037 JW4GHA

1906-10145 VU4AN/VU3RYC

2206-14083 FM5AA

2322-14080 TF3JX

The VK2SG RTTY DX NOTES are distributed every week via the Winlink network

and are also available on the Internet at URL

http://mailman.qth.net/pipermail/vk2sg-rtty/

and the digital-dx reflector. To subscribe to the digital-dx reflector

send an email message to majordomo at mla.nifty.ne.jp as

follows: Subject:(blank) Message

Body: subscribe digital-dx

For next weeks bulletin send your bandpass and notes of interest to Phil

GU0SUP pcooper at guernsey.net

GL Don AA5AU

Ohio/Penn DX Bulletin No. 756 - excerpts

8Q, MALDIVES

Francis F6DPD will be active as 8Q7FB between Apr 18-24 from Kuramathi

Island (AS-013). He will only be using 100 watts into a vertical antenna.

Activity will be mainly on 40/20/17M on SSB and PSK. This will be a

holiday style DXpedition. QSL via the bureau to the home callsign.

IOTA NEWS

EU-171. Operators Ela/DL1TM and Tor/DJ4MG will be active from Vendsyssel

Island again during the Easter holidays between Apr 16/May 4. Activity

will be on SSB on 160/80/40/20/15M and on PSK31 on 20M. QSL via their

home callsign. Also check their Web site at http://dj4mg.dyndns.org

NA-140. Steve W3RFA plans to be active in the RSGB IOTA Contest Jul 29

-30th) from South Marsh Island (USI MD-009 new one) Somerset County,

Maryland. Activity will be SSB only with 20 watts max. Steve will be

accessing this island by canoe across 5 miles of open

water. He will

only have what he can pack in the canoe on a single trip.
Low angle

propagation should be good since the location is in the
middle of a

salt marsh. QSL via his home callsign (QRZ.com).

NA-198. Operators Dan/VO1MX Wayne/VO1TA Ken/VO1KVT and
Jason/VO1JNS will

be active from Exploits Island (NF-052 for the Canadian Islands
Award)

Jul 27-30. Activity will include the RSGB IOTA Contest
Jul 29-30). They

plan to be active on all bands and modes. QSL via VO1MX
(QRZ.com).

OC-042. Rannie DU1EOV plans to be active from Mt Pulag
Luzon Island

(WLOTA LH-0081) Philippines from Apr 15-19. The focus of
the activity will

be propagation testing homebrew emergency communications.
Mt. Pulag covers

Benguet, Ifugao and Nueva Viscaya Provinces in northern
Luzon and reaches

an altitude of 2922m ASL. It is the highest peak in Luzon
and second to Mt

Apo as the highest peak in the Philippines. It is known
internationally

to be the seat of the culture of indigenous peoples of
Benguet. QSL via

DU1EOV (QRZ.com).

OC-161. The Toba DX Group will be active as YE6N on their
next operation

from Nias Island Apr 20-27. The operators will be YC6JKV
(team leader)

YC6LAY YB6LYS YB6PLG and YB1BOD/6. The group plans to
have two stations

active on 160-10M WARC bands included on CW/SSB. QSL
Manager will be

Kadek YB9BU and he requests that no Green Stamps be sent
except for new

IRCs (from the original country). Visit the groups Web
site for more

details at http://www.toba-dx-group.net

J5, GUINEA-BISSAU

Operators Hisato/JA1DOT and Hiroyuki/JP1TRJ will be active as J5DOT and

J5TRJ from Apr 25/May 4. Activity will be on all bands CW/SSB/RTTY. The duo

will be using a TS-480HX and IC-706 and wire GP/DP with 5 meter long mast

plus 10 meter long fishing rod. Their Pilot Station will be Ono JK1OPL.

QSL both callsigns via JA1DOT Hisato Kobayashi, 2-7-19 Mejirodai,

Hachioji-city, Tokyo 193-0833, Japan. An online log search will be available

after the operation. For more details, visit the Web site at:

http://www.ndxa.jp/pedi/j5-2006/

JT, MONGOLIA

Operators Nicola/I0SNY Ernesto/I2FUG Oscar/IK2AQZ and Giovanni/IK2JYT will

be active as JT1Y from Ulaanbaatar and JT0Y from Oigij between Apr 18 and

May 8. Activity will be mainly on 17/12/6M on CW/SSB/RTTY/PSK. QSL via

I0SNY.

KP2, U.S. VIRGIN ISLANDS (3 Steves Op Update!)

Operators Steve/N2IFA Steve/KB2ENF and Steve/KF2TI will be heading to St.

Croix and will be active between May 19-22 (0400-0400Z). The 3 Steves will

be signing KP2/homecall. The 3 Steves special event stations will be on

the General portions of 160-10M. Also if you work all 3 Steves you can

receive a coveted WAS (Worked All Steves) Certificate. Details are available

on their new Web page at http://3stevesandkurt.dynu.com/

QSL via the bureau or direct to Steve Adell KF2TI 606 E Vail Rd, Landing, NJ

07850-1218. ADDED NOTE This just in.. Its official..The

Three Steves and a

Kurt have their own callsign.. The 3 Steves Amateur Radio Club callsign is

WK3SS (Which stands for either Worked Kurt and 3 Steves or Worked 3 Steves.

LX, LUXEMBOURG

Operators Theo/PA1TO Paul/PA2CW Martin/PA2W and Con/PE1OOM will be active

from Wiltz as LX/homecall from Apr 23-29. Activity will be on all HF bands

with special attention to 160m and the WARC bands. QSL via their home calls,

More QSL info is available on (QRZ.com). Visit their Web site at:

http://www.xs4all.nl/~pa1to/lx2006.html

SPECIAL EVENT

Look for GB6SWL to be active to celebrate the 60th Diamond Anniversary of

the International Shortwave League (ISWL) between Apr 14-17. Operator will

be Ron G6BMY located in Bagulay Manchester. QSL via ISWL QSL Bureau.

SPECIAL EVENT

Jean-Yves F8LDX will be active as TM1IMD on Apr 22 to celebrate Inter

-national Marconi Day. QSL via F8LDX (by the bureau is preferred).

SPECIAL EVENT

During the month of June look for many French stations to be active to

commemorate the 62nd anniversary of the D-DAY landing in Normandy on Jun

6th 1944. Michel F6IPS is expected to be active as TM6SME Jun 3-13 from his

own station in Emondeville a small village located in the neighborhood of

Sainte Mere-Eglise. Look for him on CW SSB and the digital modes on the HF

bands. QSL via the bureau or direct to Michel Le Balc'h, 16 Hameau Mace,

F-50310 Emondeville, France.

VK8C, COCOS-KEELING ISLANDS (Update)

Last week we mentioned that Bernd VK2IA will be active as VK9AA during the

CQWW DX CW Contest (November 25-26th) as a Single-Op/All-Band entry. Bernd

informed OPDX that he will be there between Nov 20-27 and will watch out

for W/VE before the CQWW Contest as QSOs with most of North America are more

difficult during the contest (polar path). He also added that he will be

there between Oct 27-30 for the CQWW SSB Contest Oct 28-29 as a Multi-

Single entry with VK2CZ and possibly others. However, activity will be

focused on the contest due to limited time on the island. QSL both operations

via DL8YR.

ONE MORE NOTE Bernd also told OPDX that 'Charlie W0YG, also has plans to go

there later in the year. In fact, we will be handing over each other room

keys and station. We will try to get hold of Charlie to find out more

details. Stay tuned'.

The Society can be contacted in the following ways

to Pat VK2JPA via patleeper at optusnet.com.au or

Col VK2CTD via ctdavies at bigpond.net.au or

you can drop a line to PO Box 93 Toongabbie NSW 2146.

73’s for this week from Pat VK2JPA broadcast Officer.

NNNN